Title (en)

MACHINE START CONTROLLING APPARATUS

Title (de)

STARTSTEUERUNGSVORRICHTUNG

Title (fr)

APPAREIL DE COMMANDE DE DEMARRAGE D'UNE MACHINE

Publication

EP 0888940 B1 20050817 (EN)

Application

EP 97915682 A 19970407

Priority

- JP 9701185 W 19970407
- JP 9453696 A 19960416
- JP 9453896 A 19960416

Abstract (en)

[origin: EP0888940A1] An immobilizer ECU (20) compares reference code stored therein and a password code sent from a key (10). When the engine speed reaches 500 rpm, an engine ECU (24) transmits a rolling code A. If the above codes coincide with each other, the immobilizer ECU (20) transmits a rolling code B. If the engine ECU (24) does not receive the rolling code B within a predetermined time, the engine ECU (24) stops the engine. A counter CIMMOF which increments at the initial stage of this processing is provided, and the counter CIMMOF is reset only when it comes to a normal end. If the ignition is turned off before the communication of the rolling codes comes to an end, the counter CIMMOF is made to count up. Then, the time required to wait for the rolling code B is sequentially shortened according to the value of the counter CIMMOF. When the above processing comes to an end and when the backup power source for a backup memory (24d) is disconnected, the communication timing of the rolling codes is made earlier. This prevents the engine from being able to be started due to cutting of a communication line or the like. <IMAGE>

IPC 1-7

B60R 25/04; F02P 11/04; E05B 65/20; E05B 49/00

IPC 8 full level

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CPC (source: EP US)

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Cited by

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EP 0888940 A1 19990107; **EP 0888940 A4 20021120**; **EP 0888940 B1 20050817**; AU 2307097 A 19971107; AU 705604 B2 19990527; DE 69733995 D1 20050922; DE 69733995 T2 20060601; ES 2247625 T3 20060301; US 6144113 A 20001107; WO 9738878 A1 19971023

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